



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/511,719

11/26/2004

In-San Kim

WON-0002

9860

26259 7590 04/18/2007
LICATA & TYRRELL P.C.
66 E. MAIN STREET
MARLTON, NJ 08053

EXAMINER

FOSTER, CHRISTINE E

ART UNIT

PAPER NUMBER

1641

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
--	-----------	---------------

30 DAYS

04/18/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.



UNITED STATES DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office

Address: COMMISSIONER FOR PATENTS

P.O. Box 1450

Alexandria, Virginia 22313-1450

APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
---------------------------------	-------------	---	---------------------

10/511,719

11/26/04

KIM

WON-0002

EXAMINER

FOSTER, CHRISTINE

ART UNIT

PAPER

1641

20070412

DATE MAILED:

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner for Patents

The amendment filed on 2/20/07 canceling all claims drawn to the elected invention and presenting only claims drawn to a non-elected invention is non-responsive (MPEP § 821.03). The remaining claims are not readable on the elected invention because the originally presented claims were drawn to methods and kits for diagnosing renal diseases, hepatic diseases, rheumatoid arthritis or cardiovascular diseases. The elected species of disease was "diabetic renal disease". By contrast, the newly presented claims are not drawn to methods of diagnosing disease. Rather, they relate to diagnosis of "damage to the kidneys" and therefore do not read on the elected invention of methods of diagnosing renal diseases, hepatic diseases, rheumatoid arthritis or cardiovascular diseases, nor on the elected species of diagnosing diabetic renal disease.

In addition, the amendment is not fully responsive to the Office communication mailed 10/18/06 for the reason(s) set forth on the attached Notice to Comply With the Sequence Rules or CRF Diskette Problem Report. Please direct all replies to the United States Patent and Trademark Office via one (1) of the following:

1. Electronically submitted through EFS-Bio (<<http://www.uspto.gov/efb/efs/downloads/documents.htm>>, EFS Submission User Manual - ePAVE)

2. Mailed to:

Mail Stop Sequence

Commissioner for Patents

P.O. Box 22313-1450 Alexandria, VA 22313-1450

3. Hand Carry, Federal Express, United Parcel Service or other delivery service to:

U.S. Patent and Trademark Office

Mail Stop Sequence

Customer Window

Randolph Building

401 Dulany Street, Alexandria, VA 22314

Any inquiry concerning this communication should be directed to Examiner Christine Foster, Art Unit 1641, whose telephone number is (571) 272-8786. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (571) 273-8300.

Since the above-mentioned amendment appears to be a *bona fide* attempt to reply, applicant is given a TIME PERIOD of ONE (1) MONTH or THIRTY (30) DAYS, whichever is longer, from the mailing date of this notice within which to supply the omission or correction in order to avoid abandonment. EXTENSIONS OF THIS TIME PERIOD UNDER 37 CFR 1.136(a) ARE AVAILABLE.

LONG V. LE

02/13/07

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 1600

Notice to Comply	Application No. 10/511,719	Applicant(s) Kim, In-San	
	Examiner C. Foster	Art Unit 1641	

NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

Applicant must file the items indicated below within the time period set the Office action to which the Notice is attached to avoid abandonment under 35 U.S.C. § 133 (extensions of time may be obtained under the provisions of 37 CFR 1.136(a)).

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

- ☐ 1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to the final rulemaking notice published at 55 FR 18230 (May 1, 1990), and 1114 OG 29 (May 15, 1990). If the effective filing date is on or after July 1, 1998, see the final rulemaking notice published at 63 FR 29620 (June 1, 1998) and 1211 OG 82 (June 23, 1998).
- ☐ 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
- ☐ 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
- ☒ 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."
- ☐ 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
- ☐ 6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
- ☐ 7. Other:

Applicant Must Provide:

- ☒ An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
- ☐ An initial or substitute paper copy of the "Sequence Listing", as well as an amendment specifically directing its entry into the application.
- ☒ A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact:

For Rules Interpretation, call (703) 308-4216 or (703) 308-2923

For CRF Submission Help, call (703) 308-4212 or 308-2923

PatentIn Software Program Support

Technical Assistance.....703-287-0200

To Purchase PatentIn Software.....703-306-2600

PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR REPLY

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/511,719A
Source: IFW16
Date Processed by STIC: 02/27/2007

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER:

10/511, 719A

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.

- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped
 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000

- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

- 10 Invalid <213>
 Response

Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence. (see item 11 below)

- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules

- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

- 13 Misuse of n/Xaa "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFW16

RAW SEQUENCE LISTING

DATE: 02/27/2007

PATENT APPLICATION: US/10/511,719A

TIME: 11:08:37

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\02272007\J511719A.raw

2 <110> APPLICANT: REGEN Biotech. Inc.

4 <120> TITLE OF INVENTION: The method for measuring the amount of Betai protein and diagnostic kit

5 using the same

7 <130> FILE REFERENCE: 2fpo-10-14

C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/511,719A

C--> 9 <141> CURRENT FILING DATE: 2004-11-26

9 <160> NUMBER OF SEQ ID NOS: 12

11 <170> SOFTWARE: KopatentIn 1.71

ERRORRED SEQUENCES

13 <210> SEQ ID NO: 1
 14 <211> LENGTH: 683
 15 <212> TYPE: PRT
 16 <213> ORGANISM: Homo sapiens
 18 <400> SEQUENCE: 1
 19 Met Ala Leu Phe Val Arg Leu Leu Ala Leu Ala Leu Ala Leu
 E--> 20 1 5 10 15
 22 Gly Pro Ala Ala Thr Leu Ala Gly Pro Ala Lys Ser Pro Tyr Gln Leu
 E--> 23 20 25 30
 25 Val Leu Gln His Ser Arg Leu Arg Gly Arg Gln His Gly Pro Asn Val
 E--> 26 35 40 45
 28 Cys Ala Val Gln Lys Val Ile Gly Thr Asn Arg Lys Tyr Phe Thr Asn
 E--> 29 50 55 60
 31 Cys Lys Gln Trp Tyr Gln Arg Lys Ile Cys Gly Lys Ser Thr Val Ile
 E--> 32 65 70 75 80
 34 Ser Tyr Glu Cys Cys Pro Gly Tyr Glu Lys Val Pro Gly Glu Lys Gly
 E--> 35 85 90 95
 37 Cys Pro Ala Ala Leu Pro Leu Ser Asn Leu Tyr Glu Thr Leu Gly Val
 E--> 38 100 105 110
 40 Val Gly Ser Thr Thr Gln Leu Tyr Thr Asp Arg Thr Glu Lys Leu
 E--> 41 115 120 125
 43 Arg Pro Glu Met Glu Gly Pro Gly Ser Phe Thr Ile Phe Ala Pro Ser
 E--> 44 130 135 140
 46 Asn Glu Ala Trp Ala Ser Leu Pro Ala Glu Val Leu Asp Ser Leu Val
 E--> 47 145 150 155 160
 49 Ser Asn Val Asn Ile Glu Leu Leu Asn Ala Leu Arg Tyr His Met Val
 E--> 50 165 170 175
 52 Gly Arg Arg Val Leu Thr Asp Glu Leu Lys His Gly Met Thr Leu Thr
 E--> 53 180 185 190
 55 Ser Met Tyr Gln Asn Ser Asn Ile Gln Ile His His Tyr Pro Asn Gly
 E--> 56 195 200 205

Does Not Comply
 Corrected Diskette Needed
 CP8-1-11

Invalid
 Amino
 Acid
 Numbers
 See Glens 3
 on Error
 Summary
 Sheet.

RAW SEQUENCE LISTING

DATE: 02/27/2007

PATENT APPLICATION: US/10/511,719A

TIME: 11:08:37

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\02272007\J511719A.raw

```

58 Ile Val Thr Val Asn Cys Ala Arg Leu Leu Lys Ala Asp His His Ala
E--> 59      210          215          220
61 Thr Asn Gly Val Val His Leu Ile Asp Lys Val Ile Ser Thr Ile Thr
E--> 62 225          230          235          240
64 Asn Asn Ile Gln Gln Ile Ile Glu Ile Glu Asp Thr Phe Glu Thr Leu
E--> 65      245          250          255
67 Arg Ala Ala Val Ala Ala Ser Gly Leu Asn Thr Met Leu Glu Gly Asn
E--> 68      260          265          270
70 Gly Gln Tyr Thr Leu Leu Ala Pro Thr Asn Glu Ala Phe Glu Lys Ile
E--> 71      275          280          285
73 Pro Ser Glu Thr Leu Asn Arg Ile Leu Gly Asp Pro Glu Ala Leu Arg
E--> 74      290          295          300
76 Asp Leu Leu Asn Asn His Ile Leu Lys Ser Ala Met Cys Ala Glu Ala
E--> 77 305          310          315          320
79 Ile Val Ala Gly Leu Ser Val Glu Thr Leu Glu Gly Thr Thr Leu Glu
E--> 80      325          330          335
82 Val Gly Cys Ser Gly Asp Met Leu Thr Ile Asn Gly Lys Ala Ile Ile
E--> 83      340          345          350
85 Ser Asn Lys Asp Ile Leu Ala Thr Asn Gly Val Ile His Tyr Ile Asp
E--> 86      355          360          365
88 Glu Leu Leu Ile Pro Asp Ser Ala Lys Thr Leu Phe Glu Leu Ala Ala
E--> 89      370          375          380
91 Glu Ser Asp Val Ser Thr Ala Ile Asp Leu Phe Arg Gln Ala Gly Leu
E--> 92 385          390          395          400
94 Gly Asn His Leu Ser Gly Ser Glu Arg Leu Thr Leu Leu Ala Pro Leu
E--> 95      405          410          415
97 Asn Ser Val Phe Lys Asp Gly Thr Pro Pro Ile Asp Ala His Thr Arg
E--> 98      420          425          430
100 Asn Leu Leu Arg Asn His Ile Ile Lys Asp Gln Leu Ala Ser Lys Tyr
E--> 101     435          440          445
103 Leu Tyr His Gly Gln Thr Leu Glu Thr Leu Gly Gly Lys Lys Leu Arg
E--> 104     450          455          460
106 Val Phe Val Tyr Arg Asn Ser Leu Cys Ile Glu Asn Ser Cys Ile Ala
E--> 107 465          470          475          480
109 Ala His Asp Lys Arg Gly Arg Tyr Gly Thr Leu Phe Thr Met Asp Arg
E--> 110     485          490          495
112 Val Leu Thr Pro Pro Met Gly Thr Val Met Asp Val Leu Lys Gly Asp
E--> 113     500          505          510
115 Asn Arg Phe Ser Met Leu Val Ala Ala Ile Gln Ser Ala Gly Leu Thr
E--> 116     515          520          525
118 Glu Thr Leu Asn Arg Glu Gly Val Tyr Thr Val Phe Ala Pro Thr Asn
E--> 119     530          535          540
121 Glu Ala Phe Arg Ala Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly
E--> 122 545          550          555          560
124 Asp Ala Lys Glu Leu Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu
E--> 125     565          570          575
127 Ile Leu Val Ser Gly Gly Ile Gly Ala Leu Val Arg Leu Lys Ser Leu
E--> 128     580          585          590
130 Gln Gly Asp Lys Leu Glu Val Ser Leu Lys Asn Asn Val Val Ser Val

```

*Same
Error*

RAW SEQUENCE LISTING

DATE: 02/27/2007

PATENT APPLICATION: US/10/511,719A

TIME: 11:08:37

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\02272007\J511719A.raw

```

E--> 131          595          600          605
      133 Asn Lys Glu Pro Val Ala Glu Pro Asp Ile Met Ala Thr Asn Gly Val
E--> 134          610          615          620
      136 Val His Val Ile Thr Asn Val Leu Gln Pro Pro Ala Asn Arg Pro Gln
E--> 137 625          630          635          640
      139 Glu Arg Gly Asp Glu Leu Ala Asp Ser Ala Leu Glu Ile Phe Lys Gln
E--> 140          645          650          655
      142 Ala Ser Ala Phe Ser Arg Ala Ser Gln Arg Ser Val Arg Leu Ala Pro
E--> 143          660          665          670
      145 Val Tyr Gln Lys Leu Leu Glu Arg Met Lys His
E--> 146          675          680
      246 <210> SEQ ID NO: 3
      247 <211> LENGTH: 585
      248 <212> TYPE: PRT
      249 <213> ORGANISM: Homo sapiens
      251 <220> FEATURE:
      252 <221> NAME/KEY: PEPTIDE
      253 <222> LOCATION: (1)..(585)
      254 <223> OTHER INFORMATION: 69 to 653 amino acid sequence of human ID No.1
      257 <400> SEQUENCE: 3
      258 Tyr Gln Arg Lys Ile Cys Gly Lys Ser Thr Val Ile Ser Tyr Glu Cys
E--> 259 1          5          10          15
      261 Cys Pro Gly Tyr Glu Lys Val Pro Gly Glu Lys Gly Cys Pro Ala Ala
E--> 262          20          25          30
      264 Leu Pro Leu Ser Asn Leu Tyr Glu Thr Leu Gly Val Val Gly Ser Thr
E--> 265          35          40          45
      267 Thr Thr Gln Leu Tyr Thr Asp Arg Thr Glu Lys Leu Arg Pro Glu Met
E--> 268          50          55          60
      270 Glu Gly Pro Gly Ser Phe Thr Ile Phe Ala Pro Ser Asn Glu Ala Trp
E--> 271 65          70          75          80
      273 Ala Ser Leu Pro Ala Glu Val Leu Asp Ser Leu Val Ser Asn Val Asn
E--> 274          85          90          95
      276 Ile Glu Leu Leu Asn Ala Leu Arg Tyr His Met Val Gly Arg Arg Val
E--> 277          100          105          110
      279 Leu Thr Asp Glu Leu Lys His Gly Met Thr Leu Thr Ser Met Tyr Gln
E--> 280          115          120          125
      282 Asn Ser Asn Ile Gln Ile His His Tyr Pro Asn Gly Ile Val Thr Val
E--> 283          130          135          140
      285 Asn Cys Ala Arg Leu Leu Lys Ala Asp His His Ala Thr Asn Gly Val
E--> 286 145          150          155          160
      288 Val His Leu Ile Asp Lys Val Ile Ser Thr Ile Thr Asn Asn Ile Gln
E--> 289          165          170          175
      291 Gln Ile Ile Glu Ile Glu Asp Thr Phe Glu Thr Leu Arg Ala Ala Val
E--> 292          180          185          190
      294 Ala Ala Ser Gly Leu Asn Thr Met Leu Glu Gly Asn Gly Gln Tyr Thr
E--> 295          195          200          205
      297 Leu Leu Ala Pro Thr Asn Glu Ala Phe Glu Lys Ile Pro Ser Glu Thr
E--> 298          210          215          220
      300 Leu Asn Arg Ile Leu Gly Asp Pro Glu Ala Leu Arg Asp Leu Leu Asn

```

same
error

RAW SEQUENCE LISTING

DATE: 02/27/2007

PATENT APPLICATION: US/10/511,719A

TIME: 11:08:37

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\02272007\J511719A.raw

```

E--> 301 225                230                235                240
      303 Asn His Ile Leu Lys Ser Ala Met Cys Ala Glu Ala Ile Val Ala Gly
E--> 304                245                250                255
      306 Leu Ser Val Glu Thr Leu Glu Gly Thr Thr Leu Glu Val Gly Cys Ser
E--> 307                260                265                270
      309 Gly Asp Met Leu Thr Ile Asn Gly Lys Ala Ile Ile Ser Asn Lys Asp
E--> 310                275                280                285
      312 Ile Leu Ala Thr Asn Gly Val Ile His Tyr Ile Asp Glu Leu Ile
E--> 313                290                295                300
      315 Pro Asp Ser Ala Lys Thr Leu Phe Glu Leu Ala Ala Glu Ser Asp Val
E--> 316 305                310                315                320
      318 Ser Thr Ala Ile Asp Leu Phe Arg Gln Ala Gly Leu Gly Asn His Leu
E--> 319                325                330                335
      321 Ser Gly Ser Glu Arg Leu Thr Leu Leu Ala Pro Leu Asn Ser Val Phe
E--> 322                340                345                350
      324 Lys Asp Gly Thr Pro Pro Ile Asp Ala His Thr Arg Asn Leu Leu Arg
E--> 325                355                360                365
      327 Asn His Ile Ile Lys Asp Gln Leu Ala Ser Lys Tyr Leu Tyr His Gly
E--> 328                370                375                380
      330 Gln Thr Leu Glu Thr Leu Gly Gly Lys Lys Leu Arg Val Phe Val Tyr
E--> 331 385                390                395                400
      333 Arg Asn Ser Leu Cys Ile Glu Asn Ser Cys Ile Ala Ala His Asp Lys
E--> 334                405                410                415
      336 Arg Gly Arg Tyr Gly Thr Leu Phe Thr Met Asp Arg Val Leu Thr Pro
E--> 337                420                425                430
      339 Pro Met Gly Thr Val Met Asp Val Leu Lys Gly Asp Asn Arg Phe Ser
E--> 340                435                440                445
      342 Met Leu Val Ala Ala Ile Gln Ser Ala Gly Leu Thr Glu Thr Leu Asn
E--> 343                450                455                460
      345 Arg Glu Gly Val Tyr Thr Val Phe Ala Pro Thr Asn Glu Ala Phe Arg
E--> 346 465                470                475                480
      348 Ala Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp Ala Lys Glu
E--> 349                485                490                495
      351 Leu Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu Ile Leu Val Ser
E--> 352                500                505                510
      354 Gly Gly Ile Gly Ala Leu Val Arg Leu Lys Ser Leu Gln Gly Asp Lys
E--> 355                515                520                525
      357 Leu Glu Val Ser Leu Lys Asn Asn Val Val Ser Val Asn Lys Glu Pro
E--> 358                530                535                540
      360 Val Ala Glu Pro Asp Ile Met Ala Thr Asn Gly Val Val His Val Ile
E--> 361 545                550                555                560
      363 Thr Asn Val Leu Gln Pro Pro Ala Asn Arg Pro Gln Glu Arg Gly Asp
E--> 364                565                570                575
      366 Glu Leu Ala Asp Ser Ala Leu Glu Ile
E--> 367                580                585
      439 <210> SEQ ID NO: 5
      440 <211> LENGTH: 609
      441 <212> TYPE: PRT
      442 <213> ORGANISM: Mouse Intracisternal A-particle

```

*Same
Error*

*See Item 10
on Error Summary
Sheet.*

RAW SEQUENCE LISTING

DATE: 02/27/2007

PATENT APPLICATION: US/10/511,719A

TIME: 11:08:37

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\02272007\J511719A.raw

```

444 <220> FEATURE:
445 <221> NAME/KEY: PEPTIDE
446 <222> LOCATION: (1)..(609)
447 <223> OTHER INFORMATION: 23 to 641 amino acid sequence of mouse
450 <400> SEQUENCE: 5
451 Ala Gly Pro Ala Lys Ser Pro Tyr Gln Leu Val Leu Gln His Ser Arg
E--> 452 1 5 10 15
454 Leu Arg Gly Arg Gln His Gly Pro Asn Val Cys Ala Val Gln Lys Val
E--> 455 20 25 30
457 Ile Gly Thr Asn Arg Lys Tyr Phe Thr Asn Cys Lys Gln Trp Tyr Gln
E--> 458 35 40 45
460 Arg Lys Ile Cys Gly Lys Ser Thr Val Ile Ser Tyr Glu Cys Cys Pro
E--> 461 50 55 60
463 Gly Tyr Glu Lys Val Pro Gly Glu Lys Gly Cys Pro Ala Leu Pro
E--> 464 65 70 75 80
466 Leu Ser Asn Leu Tyr Glu Thr Leu Gly Val Val Gly Ser Thr Thr Thr
E--> 467 85 90 95
470 Gln Leu Tyr Thr Asp Arg Thr Glu Lys Leu Arg Pro Glu Met Glu Gly
E--> 471 100 105 110
473 Pro Gly Ser Phe Thr Ile Phe Ala Pro Ser Asn Glu Ala Trp Ala Ser
E--> 474 115 120 125
476 Leu Pro Ala Glu Val Leu Asp Ser Leu Val Ser Asn Val Asn Ile Glu
E--> 477 130 135 140
479 Leu Leu Asn Ala Leu Arg Tyr His Met Val Gly Arg Arg Val Leu Thr
E--> 480 145 150 155 160
482 Asp Glu Leu Lys His Gly Met Thr Leu Thr Ser Met Tyr Gln Asn Ser
E--> 483 165 170 175
485 Asn Ile Gln Ile His His Tyr Pro Asn Gly Ile Val Thr Val Asn Cys
E--> 486 180 185 190
488 Ala Arg Leu Leu Lys Ala Asp His His Ala Thr Asn Gly Val Val His
E--> 489 195 200 205
491 Leu Ile Asp Lys Val Ile Ser Thr Ile Thr Asn Asn Ile Gln Gln Ile
E--> 492 210 215 220
494 Ile Glu Ile Glu Asp Thr Phe Glu Thr Leu Arg Ala Ala Val Ala Ala
E--> 495 225 230 235 240
497 Ser Gly Leu Asn Thr Met Leu Glu Gly Asn Gly Gln Tyr Thr Leu Leu
E--> 498 245 250 255
500 Ala Pro Thr Asn Glu Ala Phe Glu Lys Ile Pro Ser Glu Thr Leu Asn
E--> 501 260 265 270
503 Arg Ile Leu Gly Asp Pro Glu Ala Leu Arg Asp Leu Leu Asn Asn His
E--> 504 275 280 285
506 Ile Leu Lys Ser Ala Met Cys Ala Glu Ala Ile Val Ala Gly Leu Ser
E--> 507 290 295 300
509 Val Glu Thr Leu Glu Gly Thr Thr Leu Glu Val Gly Cys Ser Gly Asp
E--> 510 305 310 315 320
512 Met Leu Thr Ile Asn Gly Lys Ala Ile Ile Ser Asn Lys Asp Ile Leu
E--> 513 325 330 335
515 Ala Thr Asn Gly Val Ile His Tyr Ile Asp Glu Leu Leu Ile Pro Asp
E--> 516 340 345 350

```

*Same
Error*

RAW SEQUENCE LISTING

DATE: 02/27/2007

PATENT APPLICATION: US/10/511,719A

TIME: 11:08:37

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\02272007\J511719A.raw

```

518 Ser Ala Lys Thr Leu Phe Glu Leu Ala Ala Glu Ser Asp Val Ser Thr
E--> 519      355      360      365
521 Ala Ile Asp Leu Phe Arg Gln Ala Gly Leu Gly Asn His Leu Ser Gly
E--> 522      370      375      380
524 Ser Glu Arg Leu Thr Leu Leu Ala Pro Leu Asn Ser Val Phe Lys Asp
E--> 525 385      390      395
527 Gly Thr Pro Pro Ile Asp Ala His Thr Arg Asn Leu Arg Asn His
E--> 528      405      410
530 Ile Ile Lys Asp Gln Leu Ala Ser Lys Tyr Leu Tyr His Gly Gln Thr
E--> 531      420      425      430
533 Leu Glu Thr Leu Gly Gly Lys Lys Leu Arg Val Phe Val Tyr Arg Asn
E--> 534      435      440      445
536 Ser Leu Cys Ile Glu Asn Ser Cys Ile Ala Ala His Asp Lys Arg Gly
E--> 537      450      455      460
539 Arg Tyr Gly Thr Leu Phe Thr Met Asp Arg Val Leu Thr Pro Pro Met
E--> 540 465      470      475
542 Gly Thr Val Met Asp Val Leu Lys Gly Asp Asn Arg Phe Ser Met Leu
E--> 543      485      490
545 Val Ala Ala Ile Gln Ser Ala Gly Leu Thr Glu Thr Leu Asn Arg Glu
E--> 546      500      505      510
548 Gly Val Tyr Thr Val Phe Ala Pro Thr Asn Glu Ala Phe Arg Ala Leu
E--> 549      515      520      525
551 Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp Ala Lys Glu Leu Ala
E--> 552      530      535      540
554 Asn Ile Leu Lys Tyr His Ile Gly Asp Glu Ile Leu Val Ser Gly Gly
E--> 555 545      550      555
557 Ile Gly Ala Leu Val Arg Leu Lys Ser Leu Gln Gly Asp Lys Leu Glu
E--> 558      565      570
560 Val Ser Leu Lys Asn Asn Val Val Ser Val Asn Lys Glu Pro Val Ala
E--> 561      580      585      590
563 Glu Pro Asp Ile Met Ala Thr Asn Gly Val Val His Val Ile Thr Asn
E--> 564      595      600      605
566 Val
595 <210> SEQ ID NO: 7
596 <211> LENGTH: 140
597 <212> TYPE: PRT
598 <213> ORGANISM: Artificial Sequence
600 <220> FEATURE:
601 <223> OTHER INFORMATION: Betaig-h3 D-IV(1X) amino acid sequence
604 <400> SEQUENCE: 7
605 Leu Thr Pro Pro Met Gly Thr Val Met Asp Val Leu Lys Gly Asp Asn
E--> 606 1      5      10
608 Arg Phe Ser Met Leu Val Ala Ala Ile Gln Ser Ala Gly Leu Thr Glu
E--> 609      20      25      30
611 Thr Leu Asn Arg Glu Gly Val Tyr Thr Val Phe Ala Pro Thr Asn Glu
E--> 612      35      40      45
614 Ala Phe Arg Ala Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp
E--> 615      50      55      60
617 Ala Lys Glu Leu Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu Ile

```

*Same
Error*

RAW SEQUENCE LISTING

DATE: 02/27/2007

PATENT APPLICATION: US/10/511,719A

TIME: 11:08:37

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\02272007\J511719A.raw

```

E--> 618 65 70 75 80
      620 Leu Val Ser Gly Gly Ile Gly Ala Leu Val Arg Leu Lys Ser Leu Gln
E--> 621 85 90 95
      623 Gly Asp Lys Leu Glu Val Ser Leu Lys Asn Asn Val Val Ser Val Asn
E--> 624 100 105 110
      626 Lys Glu Pro Val Ala Glu Pro Asp Ile Met Ala Thr Asn Gly Val Val
E--> 627 115 120 125
      629 His Val Ile Thr Asn Val Leu Gln Pro Pro Ala Asn
E--> 630 130 135 140
      633 <210> SEQ ID NO: 8
      634 <211> LENGTH: 280
      635 <212> TYPE: PRT
      636 <213> ORGANISM: Artificial Sequence
      638 <220> FEATURE:
      639 <223> OTHER INFORMATION: Betaig-h3 D-IV(2X) amino acid sequence
      642 <400> SEQUENCE: 8
      643 Leu Thr Pro Pro Met Gly Thr Val Met Asp Val Leu Lys Gly Asp Asn
E--> 644 1 5 10 15
      646 Arg Phe Ser Met Leu Val Ala Ala Ile Gln Ser Ala Gly Leu Thr Glu
E--> 647 20 25 30
      649 Thr Leu Asn Arg Glu Gly Val Tyr Thr Val Phe Ala Pro Thr Asn Glu
E--> 650 35 40 45
      652 Ala Phe Arg Ala Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp
E--> 653 50 55 60
      655 Ala Lys Glu Leu Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu Ile
E--> 656 65 70 75 80
      658 Leu Val Ser Gly Gly Ile Gly Ala Leu Val Arg Leu Lys Ser Leu Gln
E--> 659 85 90 95
      661 Gly Asp Lys Leu Glu Val Ser Leu Lys Asn Asn Val Val Ser Val Asn
E--> 662 100 105 110
      664 Lys Glu Pro Val Ala Glu Pro Asp Ile Met Ala Thr Asn Gly Val Val
E--> 665 115 120 125
      667 His Val Ile Thr Asn Val Leu Gln Pro Pro Ala Asn Leu Thr Pro Pro
E--> 668 130 135 140
      670 Met Gly Thr Val Met Asp Val Leu Lys Gly Asp Asn Arg Phe Ser Met
E--> 671 145 150 155 160
      673 Leu Val Ala Ala Ile Gln Ser Ala Gly Leu Thr Glu Thr Leu Asn Arg
E--> 674 165 170 175
      676 Glu Gly Val Tyr Thr Val Phe Ala Pro Thr Asn Glu Ala Phe Arg Ala
E--> 677 180 185 190
      679 Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp Ala Lys Glu Leu
E--> 680 195 200 205
      682 Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu Ile Leu Val Ser Gly
E--> 683 210 215 220
      685 Gly Ile Gly Ala Leu Val Arg Leu Lys Ser Leu Gln Gly Asp Lys Leu
E--> 686 225 230 235 240
      688 Glu Val Ser Leu Lys Asn Asn Val Val Ser Val Asn Lys Glu Pro Val
E--> 689 245 250 255
      691 Ala Glu Pro Asp Ile Met Ala Thr Asn Gly Val Val His Val Ile Thr

```

Same Error

RAW SEQUENCE LISTING

DATE: 02/27/2007

PATENT APPLICATION: US/10/511,719A

TIME: 11:08:37

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\02272007\J511719A.raw

```

E--> 692          260          265          270
      694 Asn Val Leu Gln Pro Pro Ala Asn
E--> 695          275          280
      698 <210> SEQ ID NO: 9
      699 <211> LENGTH: 420
      700 <212> TYPE: PRT
      701 <213> ORGANISM: Artificial Sequence
      703 <220> FEATURE:
      704 <223> OTHER INFORMATION: Betaig-h3 D-IV(3X) amino acid sequence
      707 <400> SEQUENCE: 9
      708 Leu Thr Pro Pro Met Gly Thr Val Met Asp Val Leu Lys Gly Asp Asn
E--> 709   1          5          10          15
      711 Arg Phe Ser Met Leu Val Ala Ala Ile Gln Ser Ala Gly Leu Thr Glu
E--> 712          20          25          30
      714 Thr Leu Asn Arg Glu Gly Val Tyr Thr Val Phe Ala Pro Thr Asn Glu
E--> 715          35          40          45
      717 Ala Phe Arg Ala Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp
E--> 718          50          55          60
      720 Ala Lys Glu Leu Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu Ile
E--> 721   65          70          75          80
      723 Leu Val Ser Gly Gly Ile Gly Ala Leu Val Arg Leu Lys Ser Leu Gln
E--> 724          85          90          95
      726 Gly Asp Lys Leu Glu Val Ser Leu Lys Asn Asn Val Val Ser Val Asn
E--> 727          100         105         110
      729 Lys Glu Pro Val Ala Glu Pro Asp Ile Met Ala Thr Asn Gly Val Val
E--> 730          115         120         125
      732 His Val Ile Thr Asn Val Leu Gln Pro Pro Ala Asn Leu Thr Pro Pro
E--> 733          130         135         140
      735 Met Gly Thr Val Met Asp Val Leu Lys Gly Asp Asn Arg Phe Ser Met
E--> 736 145         150         155         160
      738 Leu Val Ala Ala Ile Gln Ser Ala Gly Leu Thr Glu Thr Leu Asn Arg
E--> 739          165         170         175
      741 Glu Gly Val Tyr Thr Val Phe Ala Pro Thr Asn Glu Ala Phe Arg Ala
E--> 742          180         185         190
      744 Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp Ala Lys Glu Leu
E--> 745          195         200         205
      747 Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu Ile Leu Val Ser Gly
E--> 748          210         215         220
      750 Gly Ile Gly Ala Leu Val Arg Leu Lys Ser Leu Gln Gly Asp Lys Leu
E--> 751 225         230         235         240
      753 Glu Val Ser Leu Lys Asn Asn Val Val Ser Val Asn Lys Glu Pro Val
E--> 754          245         250         255
      756 Ala Glu Pro Asp Ile Met Ala Thr Asn Gly Val Val His Val Ile Thr
E--> 757          260         265         270
      759 Asn Val Leu Gln Pro Pro Ala Asn Leu Thr Pro Pro Met Gly Thr Val
E--> 760          275         280         285
      762 Met Asp Val Leu Lys Gly Asp Asn Arg Phe Ser Met Leu Val Ala Ala
E--> 763          290         295         300
      765 Ile Gln Ser Ala Gly Leu Thr Glu Thr Leu Asn Arg Glu Gly Val Tyr

```

*Same
Error*

RAW SEQUENCE LISTING

DATE: 02/27/2007

PATENT APPLICATION: US/10/511,719A

TIME: 11:08:37

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\02272007\J511719A.raw

```

E--> 766 305          310          315          320
      768 Thr Val Phe Ala Pro Thr Asn Glu Ala Phe Arg Ala Leu Pro Pro Arg
E--> 769          325          330          335
      771 Glu Arg Ser Arg Leu Leu Gly Asp Ala Lys Glu Leu Ala Asn Ile Leu
E--> 772          340          345          350
      774 Lys Tyr His Ile Gly Asp Glu Ile Leu Val Ser Gly Gly Ile Gly Ala
E--> 775          355          360          365
      777 Leu Val Arg Leu Lys Ser Leu Gln Gly Asp Lys Leu Glu Val Ser Leu
E--> 778          370          375          380
      780 Lys Asn Asn Val Val Ser Val Asn Lys Glu Pro Val Ala Glu Pro Asp
E--> 781 385          390          395          400
      783 Ile Met Ala Thr Asn Gly Val Val His Val Ile Thr Asn Val Leu Gln
E--> 784          405          410          415
      786 Pro Pro Ala Asn
      787          420
      790 <210> SEQ ID NO: 10
      791 <211> LENGTH: 560
      792 <212> TYPE: PRT
      793 <213> ORGANISM: Artificial Sequence
      795 <220> FEATURE:
      796 <223> OTHER INFORMATION: Betaig-h3 D-IV(4X) amino acid sequence
      799 <400> SEQUENCE: 10
      800 Leu Thr Pro Pro Met Gly Thr Val Met Asp Val Leu Lys Gly Asp Asn
E--> 801 1          5          10          15
      803 Arg Phe Ser Met Leu Val Ala Ala Ile Gln Ser Ala Gly Leu Thr Glu
E--> 804          20          25          30
      806 Thr Leu Asn Arg Glu Gly Val Tyr Thr Val Phe Ala Pro Thr Asn Glu
E--> 807          35          40          45
      809 Ala Phe Arg Ala Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp
E--> 810          50          55          60
      812 Ala Lys Glu Leu Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu Ile
E--> 813 65          70          75          80
      815 Leu Val Ser Gly Gly Ile Gly Ala Leu Val Arg Leu Lys Ser Leu Gln
E--> 816          85          90          95
      818 Gly Asp Lys Leu Glu Val Ser Leu Lys Asn Asn Val Val Ser Val Asn
E--> 819          100          105          110
      821 Lys Glu Pro Val Ala Glu Pro Asp Ile Met Ala Thr Asn Gly Val Val
E--> 822          115          120          125
      824 His Val Ile Thr Asn Val Leu Gln Pro Pro Ala Asn Leu Thr Pro Pro
E--> 825          130          135          140
      827 Met Gly Thr Val Met Asp Val Leu Lys Gly Asp Asn Arg Phe Ser Met
E--> 828 145          150          155          160
      830 Leu Val Ala Ala Ile Gln Ser Ala Gly Leu Thr Glu Thr Leu Asn Arg
E--> 831          165          170          175
      833 Glu Gly Val Tyr Thr Val Phe Ala Pro Thr Asn Glu Ala Phe Arg Ala
E--> 834          180          185          190
      836 Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp Ala Lys Glu Leu
E--> 837          195          200          205
      839 Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu Ile Leu Val Ser Gly

```

Same
error

RAW SEQUENCE LISTING

DATE: 02/27/2007

PATENT APPLICATION: US/10/511,719A

TIME: 11:08:37

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\02272007\J511719A.raw

```

E--> 840      210      215      220
      842 Gly Ile Gly Ala Leu Val Arg Leu Lys Ser Leu Gln Gly Asp Lys Leu
E--> 843 225      230      235      240
      845 Glu Val Ser Leu Lys Asn Asn Val Val Ser Val Asn Lys Glu Pro Val
E--> 846      245      250      255
      848 Ala Glu Pro Asp Ile Met Ala Thr Asn Gly Val Val His Val Ile Thr
E--> 849      260      265      270
      851 Asn Val Leu Gln Pro Pro Ala Asn Leu Thr Pro Pro Met Gly Thr Val
E--> 852      275      280      285
      854 Met Asp Val Leu Lys Gly Asp Asn Arg Phe Ser Met Leu Val Ala Ala
E--> 855      290      295      300
      857 Ile Gln Ser Ala Gly Leu Thr Glu Thr Leu Asn Arg Glu Gly Val Tyr
E--> 858 305      310      315      320
      860 Thr Val Phe Ala Pro Thr Asn Glu Ala Phe Arg Ala Leu Pro Pro Arg
E--> 861      325      330      335
      863 Glu Arg Ser Arg Leu Leu Gly Asp Ala Lys Glu Leu Ala Asn Ile Leu
E--> 864      340      345      350
      866 Lys Tyr His Ile Gly Asp Glu Ile Leu Val Ser Gly Gly Ile Gly Ala
E--> 867      355      360      365
      869 Leu Val Arg Leu Lys Ser Leu Gln Gly Asp Lys Leu Glu Val Ser Leu
E--> 870      370      375      380
      872 Lys Asn Asn Val Val Ser Val Asn Lys Glu Pro Val Ala Glu Pro Asp
E--> 873 385      390      395      400
      875 Ile Met Ala Thr Asn Gly Val Val His Val Ile Thr Asn Val Leu Gln
E--> 876      405      410      415
      878 Pro Pro Ala Asn Leu Thr Pro Pro Met Gly Thr Val Met Asp Val Leu
E--> 879      420      425      430
      881 Lys Gly Asp Asn Arg Phe Ser Met Leu Val Ala Ala Ile Gln Ser Ala
E--> 882      435      440      445
      884 Gly Leu Thr Glu Thr Leu Asn Arg Glu Gly Val Tyr Thr Val Phe Ala
E--> 885      450      455      460
      887 Pro Thr Asn Glu Ala Phe Arg Ala Leu Pro Pro Arg Glu Arg Ser Arg
E--> 888 465      470      475      480
      890 Leu Leu Gly Asp Ala Lys Glu Leu Ala Asn Ile Leu Lys Tyr His Ile
E--> 891      485      490      495
      893 Gly Asp Glu Ile Leu Val Ser Gly Gly Ile Gly Ala Leu Val Arg Leu
E--> 894      500      505      510
      896 Lys Ser Leu Gln Gly Asp Lys Leu Glu Val Ser Leu Lys Asn Asn Val
E--> 897      515      520      525
      899 Val Ser Val Asn Lys Glu Pro Val Ala Glu Pro Asp Ile Met Ala Thr
E--> 900      530      535      540
      902 Asn Gly Val Val His Val Ile Thr Asn Val Leu Gln Pro Pro Ala Asn
E--> 903 545      550      555      560
      906 <210> SEQ ID NO: 11
      907 <211> LENGTH: 5
      908 <212> TYPE: PRT
      909 <213> ORGANISM: peptide
      911 <400> SEQUENCE: 11
      912 Asn Lys Asp Ile Leu

```

2137 Responses can
be either Artificial or
Unknown, pls see Glem
10 on Error Summary
sheet.

RAW SEQUENCE LISTING

DATE: 02/27/2007

PATENT APPLICATION: US/10/511,719A

TIME: 11:08:37

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\02272007\J511719A.raw

E--> 913 1 5

916 <210> SEQ ID NO: 12

917 <211> LENGTH: 4

918 <212> TYPE: PRT

919 <213> ORGANISM: peptide

921 <400> SEQUENCE: 12

922 Glu Pro Asp Ile

923 1

E--> 927 19

E--> 930 1

Same Engr.

pls delete

VERIFICATION SUMMARY

DATE: 02/27/2007

PATENT APPLICATION: US/10/511,719A

TIME: 11:08:38

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\02272007\J511719A.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
 L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
 L:20 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
 M:332 Repeated in SeqNo=1
 L:259 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
 M:332 Repeated in SeqNo=3
 L:452 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5
 M:332 Repeated in SeqNo=5
 L:606 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:7
 M:332 Repeated in SeqNo=7
 L:644 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:8
 M:332 Repeated in SeqNo=8
 L:709 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:9
 M:332 Repeated in SeqNo=9
 L:801 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:10
 M:332 Repeated in SeqNo=10
 L:913 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:11
 L:927 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:12
 M:332 Repeated in SeqNo=12